

1. A flat panel display module comprising:

a light emitting section provided in a display region in a center section on said surface on which the said wiring line terminal section of said transparent substrate is formed;

15           a flexible printed circuit board connected to  
said wiring line terminal section and extending along  
said sealing cap of said transparent substrate; and

2. The flat panel display module according to claim 1, wherein said semiconductor device is mounted on a side of said flexible printed circuit board of said sealing cap.

3. The flat panel display module according to

4. The flat panel display module according to claim 1, wherein said flexible printed circuit board is provided to extend along said transparent substrate and said sealing cap without being turned back.

6. The flat panel display module according to claim 5, wherein said flexible printed circuit board is bent to a first direction opposite to said transparent substrate in a first position between said wiring line terminal section of said transparent substrate and said sealing cap,

is bent to said first direction in a second position between said first position and said terminal section of said sealing cap, and

7. The flat panel display module according to claim 6, wherein a bending angle in said first position is within 60 degrees.

8. The flat panel display module according to claim 6, wherein in said first position, the wiring line pattern of said flexible printed circuit board is formed only on one side.

9. The flat panel display module according to claim 6, wherein in said second position, said wiring line pattern of said flexible printed circuit board is formed on both sides and a resist film is applied.

10. The flat panel display module according to claim 6, wherein a bending angle in said second position is within 90 degrees and a summation of the bending angle in said first position and the bending angle in said second position is equal to or less than 90 degrees.

11. The flat panel display module according to

claim 6, wherein said flexible printed circuit board  
is bent to said second direction approximately  
parallel to said transparent substrate in said third  
5 position.

12. The flat panel display module according to  
claim 6, wherein a metal film is formed on a back side  
of said flexible printed circuit board in one or both  
of said second position and said third position.

13. The flat panel display module according to  
claim 6, wherein said flexible printed circuit board  
is bent to said first direction opposite to said  
transparent substrate in a fourth position between  
5 said end of said sealing cap and said end of said  
light emitting section,

is bent to said second direction opposite to  
said first direction in a fifth position between said  
fourth position and said end of said light emitting  
10 section.

14. The flat panel display module according to  
claim 13, wherein in said fourth position, said wiring  
line patterns of said flexible printed circuit board  
are formed on both sides of said flexible printed  
5 circuit board and a resist film is applied.

15. The flat panel display module according to claim 13, wherein said flexible printed circuit board is bent to said second direction approximately parallel to said transparent substrate in said fifth position.

16. The flat panel display module according to claim 1, further comprising:

a frame provided along said end of said transparent substrate.

17. The flat panel display module according to claim 16, wherein said frame supports said flexible printed circuit board together with said end of said sealing cap.

18. The flat panel display module according to claim 1, wherein said wiring line terminal section is formed on both of said surface of said opposite ends of said transparent substrate, and

5 said flexible printed circuit board is connected with said both of said wiring line terminal sections.

19. The flat panel display module according to claim 1, wherein said wiring line terminal section is formed on both of said surface of said opposite ends

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of said transparent substrate, and

5           said flexible printed circuit board is  
connected with said both of said wiring line terminal  
sections.

20.       The flat panel display module according to  
claim 1, wherein said light emitting section is an  
organic EL film.

21.       The flat panel display module according to  
claim 1, wherein said light emitting section is an  
organic EL film,

          the flat panel display module further comprises  
5 a desiccant section between said light emitting  
section and said sealing cap in a center section of  
said display region, said sealing cap has a protrusion  
section corresponding to said desiccant section,

          a plurality of said semiconductor devices are  
10 provided on said flexible printed circuit board on a  
side of said transparent substrate between said  
protrusion section of said sealing cap and said end of  
said sealing cap.

22.       A manufacturing method of a flat panel display  
module, comprising the steps of:

          (a) forming a display section, wherein said  
display section comprises a transparent substrate

5 having a wiring line terminal section which is formed  
on one of surfaces of said transparent substrate in at  
least one of opposing ends of said transparent  
substrate; a light emitting section provided in a  
display region in a center section on said surface on  
10 which the said wiring line terminal section of said  
transparent substrate is formed; a sealing cap  
provided for a sealing region to cover said light  
emitting section such that ends of said sealing cap  
does not reach said ends of said transparent substrate  
15 or said wiring line terminal section of said  
transparent substrate; a flexible printed circuit  
board connected to said wiring line terminal section  
and extending along said sealing cap of said  
transparent substrate; and a semiconductor device  
20 mounted on said flexible printed circuit board for  
said light emitting section;

(b) connecting said flexible printed circuit  
board with semiconductor devices mounted to said  
wiring line terminal section of said transparent  
25 substrate; and

(c) fixing a frame around said ends of said  
transparent substrate.

23. The manufacturing method according to claim 22,  
wherein said (b) connecting step comprises the steps  
of:

forming said flexible printed circuit board;

5 and

mounting said semiconductor devices on said flexible printed circuit board.

24. The manufacturing method according to claim 22, wherein said (b) connecting step comprises the steps of:

mounting said semiconductor devices on said  
5 flexible printed circuit board; and

forming said flexible printed circuit board with said semiconductor devices mounted.

25. The manufacturing method according to claim 23, wherein said forming step of said flexible printed circuit board comprises the steps of:

bending said flexible printed circuit board to  
5 a first direction opposite to said transparent substrate in a first position between said end of said sealing cap of and said wiring line terminal section of said transparent substrate;

further bending said flexible printed circuit  
10 board to said first direction in a second position between said first position and said end of said sealing cap;

bending said flexible printed circuit board to a second direction opposite to said first direction in

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15 a third position between said second position and said end of said sealing cap.

26. The manufacturing method according to claim 25, wherein a bending angle in said first position is equal to or less than 60 degrees,

a bending angle in said second position is  
5 equal to or less than 90 degrees, and

a summation of the bending angle in said first position and the bending angle in said second position is equal to or less than 90 degrees.

27. The manufacturing method according to claim 25, wherein said forming step of flexible printed circuit board further comprises the steps of:

bending said flexible printed circuit board to  
5 said first direction opposite to said transparent substrate in a fourth position between said end of said sealing cap and an end of said light emitting section; and

bending said flexible printed circuit board to  
10 said second direction opposite to the said first direction in a fifth position between said fourth position and the end of said light emitting section.